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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/964,079	(09/26/2001	Robert S. Kieval	1071,1104101 2039 EXAMINER	
20350	7590	09/28/2004			
TOWNSEN	ID AND	TOWNSEND AN	OROPEZA, FRANCES P		
		RO CENTER		ART UNIT	PAPER NUMBER
EIGHTH FL	OOR			AKTONII	FAFER NUMBER
SAN FRAN	CISCO, C	CA 94111-3834		3762	

DATE MAILED: 09/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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,	Application	n No.	Applicant(s)	9					
	09/964,079)	KIEVAL ET AL.						
Office Action Summary	Examiner		Art Unit						
	Frances P.		3762						
The MAILING DATE of this communication app Period for Reply	pears on the	cover sheet with the c	orrespondence add	ress					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no ever y within the statut will apply and will s, cause the applic	nt, however, may a reply be time ory minimum of thirty (30) days expire SIX (6) MONTHS from the cation to become ABANDONE	nely filed s will be considered timely. the mailing date of this com D (35 U.S.C. § 133).	nmunication.					
Status									
1) Responsive to communication(s) filed on 4/16/	/04 (Election).							
	action is no								
,—	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) <u>1-10 and 26-28</u> is/are rejected. 7) ☐ Claim(s) is/are objected to.	Claim(s) <u>1-28</u> is/are pending in the application. 4a) Of the above claim(s) <u>11-25</u> is/are withdrawn from consideration. 5) Claim(s) is/are allowed. Claim(s) <u>1-10 and 26-28</u> is/are rejected.								
Application Papers									
9) The specification is objected to by the Examine 10) The drawing(s) filed on 26 September 2001 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	are: a)⊠ ac drawing(s) be tion is require	e held in abeyance. See d if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFF	R 1.121(d).					
Priority under 35 U.S.C. § 119				,					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priority document: application from the International Bureau * See the attached detailed Office action for a list	s have been s have been rity documen u (PCT Rule	received. received in Applicati nts have been receive 17.2(a)).	on No ed in this National S	tage					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or, PTO/SB/08) Paper No(s)/Mail Date リロック・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	152)					

DETAILED ACTION

Election/Restriction

1. Claims 11-25 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim.

Election was made without traverse in the reply filed on 4/16/04.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 7-10 and 27-28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 7-10 and 27-28, "the first output level" and "the second output level" lack antecedent basis.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

- 4. Claims 1-3, 5-9 and 26-28 are rejected under 35 U.S.C. 102(b) as being anticipated by Sjostrand et al. (US3650277). Sjostrand et al. teach a system for changing the baroreflex system using an activation device proximate a baroreceptor and electrically stimulating the site with a stimulation pattern containing two different levels of signals, an initial signal and subsequent signals, that vary according to amplitude, frequency or width (abstract; col. 1 @ 4-17, 46-53 and 62-65; col. 2 @ 1-32; col. 2 @ 59 col. 3 @ 8; col. 3 @ 45-67; col. 3 @ 74 col. 4 @ 31; col. 4 @ 64 col. 5 @ 36; col. 7 @ 72 col. 8 @ 4; col. 8 @ 40-58).
- 5. Claims 1-10 and 26-28 are rejected under 35 U.S.C. 102(b) as being anticipated by Obel et al. (US 5199428). Obel et al. teach a system for changing the baroreflex system using an activation device proximate a baroreceptor and electrically stimulating the site with a stimulation pattern containing two different levels of signals, an initial signal train and subsequent signal trains, that vary according to amplitude, frequency or width (figure 1; col. 2 @ 47-65; col. 3 @ 8-28; col. 3 @ 62 col. 4 @ 20; col. 4 @ 42-45; col. 5 @45-51; col. 9 @ 9-25; col. 10 @ 9-13)
- 6. Claims 1, 5, 6 and 26 are rejected under 35 U.S.C. 102(b) as being anticipated by Zabara (US 5540734). Zabara teaches a system for changing the baroreflex system using an activation device proximate a baroreceptor and electrically stimulating the site (figure 1; col. 2 @ 59-63; col. 4 @ 59-65; col. 7 @ 23-35; col. 8 @ 3-40).

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7. Claims 1, 5, 6 and 26 are rejected under 35 U.S.C. 102(b) as being anticipated by Terry, Jr. et al. (US 5707400). Terry, Jr. et al. teach a system for changing the baroreflex system using an activation device proximate a baroreceptor and electrically stimulating the site (abstract; col. 1 @ 9-14; col. 2 @ 3-7, 13-21 and 50-60; col. 5 @ 22-40; col. 6 @ 50-64; col. 7 @ 15-34; col. 8 @ 15-58).

8. Claims 1-10 and 26-28 are rejected under 35 U.S.C. 102(e) as being anticipated by Kieval et al. (US 6073048). Kieval et al. teach a system for changing the baroreflex system using an activation device proximate a baroreceptor and electrically stimulating the site with a stimulation pattern containing levels of signals, optimized based on system feedback, the signals varying according to amplitude, frequency or width (abstract; figure 7; col. 1 @ 6-12; col. 1 @ 60 – col. 2 @ 23; col. 3 @ 32-46; col. 4 @ 10-14; col. 5 @ 7-38; col. 6 @ 6-11; col. 7 @ 10-46; col. 8 @ 3-28; col. 9 @ 46 – col. 10 @ 14).

Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any

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evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

10. Claims 2-4, 7-10, 27 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Terry et al. (US 5707400) in view of Peters et al. (The Principle of Electrical Carotid Sinus Nerve Stimulation; A Nerve Pacemaker System for Angina Pectoris and Hypertension Therapy, Annals of Biomedical Engineering, Vol. 8, pp 445-458, 1980). As discussed in paragraph 7 of this action, Terry et al. discloses the claimed invention except for a two level stimulation system to attain and retain the beneficial impact of therapy.

Peters et al. teach carotid sinus nerve stimulation using a two level stimulation system for the purpose of attaining and retaining the beneficial impact of therapy. The need to optimize the treatment for each patient is highlighted, hence it would be obvious to modify the parameters of amplitude, pulse frequency, pulse width, and pulse bursts at different levels, and determine the most appropriate stimulation pattern based on routine experimentation. It would have been obvious to one having ordinary skill in the art at the time of the invention to have used a two level stimulation system for the purpose of attaining and retaining the beneficial impact of therapy in the Terry, Jr. et al. system in order to use a proven feedback loop so the stimulation parameter and their patterns can be optimized (pages 445 and 451-454).

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Specification

11. The specification is objected to because the Serial Numbers are missing the in Cross Reference section on page 1 of the specification.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frances P. Oropeza whose telephone number is (703) 605-4355. The examiner can normally be reached Monday through Friday from 9 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Angela D. Sykes, can be reached on (703) 308-5181. The telephone number for facsimiles for regular communication and After Final communications is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application should be directed to the receptionist whose telephone number is (703) 308-0858.

Frances P. Oropeza Patent Examiner

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ANGELA D. SYKES SUPERVISORY PATENT EXAMINER **TECHNOLOGY CENTER 3700**

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